IS 3237-7 (1986): Special Purpose Syringe, Part 7: Forced Feeding Syringe [MHD 12: Hospital Equipment]

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Indian Standard (Reaffirmed 2001)

SPECIFICATION FOR SPECIAL PURPOSE SYRINGE

PART 7 FORCED FEEDING SYRINGE

Medical Glass Instruments and Appliances Sectional Committee, CPDC 12; Hypodermic Syringes Subcommittee, CPDC 12 : 1 [Ref : Doc : CPDC 12 (1924)]

1. Scope — Covers the requirements for forced feeding syringes also known as 'catheter nozzle syringe' for medical use.

1.1 For general requirements the provisions covered in IS : 3235-1980 'General requirements for syringes for medical use (*first revision*)' shall apply unless otherwise stated in this standard.

2. Size and Dimensions of Syringes

2.1 Except the frontal and nozzle portion, typical syringes shall be as shown in Fig. 1A of IS : 3236-1980 'Specification for hypodermic syringes for general purposes (*first revision*)'.

2.2 The capacities of syringes shall be 30, 50 and 100 ml in accordance with Table 1 of IS : 3236-1980.

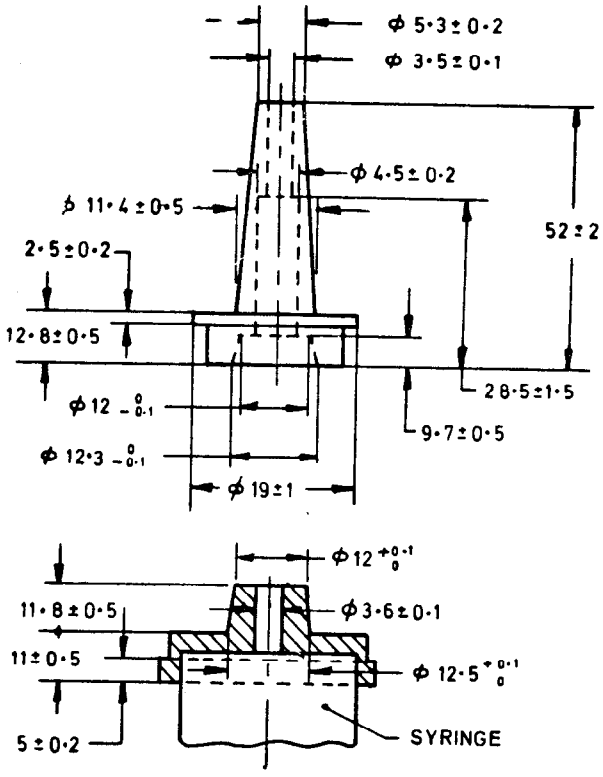
2.3 The sub-divisions of scale intervals shall be in accordance with col 4 of Table 1 of IS : 3236-1980. The sub-divisions other than those specified therein may also be permitted subject to agreement between the purchaser and the supplier.

2.4 The length of scale, the minimum length of graduation and the numbering of the graduation shall be in accordance with Table 1 of IS : 3236-1980.

2.5 Dimensions of syringes shall be in accordance with Table 2 of IS : 3236-1980 except;

Maximum overall length: for 30 ml is 210 mm
for 50 ml is 230 mm
for 100 ml is 270 mm

Diameter of effluent for all sizes shall be as in Fig. 1.



All dimensions in millimetres.

FIG. 1 DIMENSIONS OF NOZZLE OF FORCED FEEDING SYRINGE

Adopted 29 September 1986 Gr 2

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3. Requirements

3.1 *Nozzle* — Nozzle dimensions of the syringe shall preferably be in accordance with those given in Fig. 1. These dimensions may vary according to the capacity of the syringe and outside diameter of the syringe barrel.

3.2 The numbering of scale intervals shall be in accordance with col 6 of Table 1 of IS : 3236-1980. The number shall be close to, but shall not touch the ends of the graduation mark to which it relates. The numbering shall generally conform to details given in Fig. 3 of IS : 3236-1980. The numbers shall be clearly defined, durable and easily legible.

3.3 The piston shall be easily visible through the barrel and the fiducial line shall be capable of being judged against the graduations very accurately.

4. Tests

4.1 All tests given in IS : 3235-1980 except **8.1** and **8.8.2**, shall apply.

5. Marking — Each syringe shall be legibly and durably marked with the following:

a) Manufacturer's name, initials or recognized trade-mark;

b) Unit of capacity, ml; and

c) Means of identification of barrel and piston.

5.1 *Certification Marking* — Details available with the Bureau of Indian Standards.

6. Packing — Shall be as agreed to between the manufacturer and the purchaser.

7. Sampling — Sampling scheme and criteria for acceptance shall be as agreed to between the manufacturer and the purchaser. However, a recommended sampling plan is given in Appendix A.

APPENDIX A

(*Clause* 7)

SAMPLING PLAN AND CRITERIA FOR CONFORMITY

A-1. Lot

A-1.1 In any consignment, all the syringes produced from the same material of the same type, shape and dimensions under similar conditions shall constitute a lot.

A-1.2 The number of syringes to be selected from each lot shall depend upon the size of the lot and shall be in accordance with col 1 and 2 of Table 1.

TABLE 1 SCALE OF SAMPLING

Lot Size	Sample Size	Sub-Sample Size
(1)	(2)	(3)
Up to 100	5	5
101 to 150	8	5
151 to 500	13	8
501 to 1 000	20	13
1 001 to 10 000	32	13
10 001 and above	50	20

A-1.2.1 These syringes shall be selected from the lot at random and in order to ensure the randomness of selection, procedure given in IS : 4905-1968 'Methods for random sampling' may be followed.

A-2. Number of Tests and Criteria for Conformity

A-2.1 All the syringes selected at random in accordance with col 1 and 2 of Table 1 shall be tested for dimensions, capacity, shock test, leakage test, test for entrapped fluid and freedom from striae and

strain. A syringe shall be considered as defective if it fails to meet any one or more of these requirements. A lot shall be considered as conforming to these requirements if none of the syringes in the sample is found to be defective in any of these tests.

A-2.2 If the lot is found to be conforming to the requirements given in **A-2.1**, the test of corrosion, permanency of marking, dry heat test and alkalinity test shall be carried out on the sub-samples selected according to col 3 of Table 1. A lot shall be considered as conforming to these requirements if none of the syringes in the sub-sample fails to meet any of these requirements.

A-2.3 The lot shall be considered as conforming to the standard if **A-2.1** and **A-2.2** are satisfied.

EXPLANATORY NOTE

IS : 3237 was first published in 1965 and revised in 1980. It had then covered hypodermic syringes of small capacity, namely, insulin syringes, tuberculin syringes and BCG syringes. In the second revision of this standard undertaken in 1985, these special purpose syringes were covered in three separate parts. Subsequently, other special purpose syringes have also been added to this standard as its further parts and are given below:

IS : 3237 (Part 1)-1985 Insulin syringes (*second revision*)

IS : 3237 (Part 2)-1985 Tuberculin syringes (*second revision*)

IS : 3237 (Part 3)-1985 BCG syringes (*second revision*)

IS : 3237 (Part 4)-1986 Allergy vaccine syringes

IS : 3237 (Part 5)-1986 Post operation care syringe

IS : 3237 (Part 6)-1986 Irrigation syringe

IS : 3237 (Part 7)-1986 Forced feeding syringe

IS : 3237 (Part 8)-1986 Angiography syringe.

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